COLLEGE OF PHYSICIANS AND SURGEONS OF BRITISH COLUMBIA

Diagnostic Accreditation Program

ACCREDITATION STANDARDS

Mobile Imaging Trailers

Diagnostic Accreditation Program
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Mobile imaging trailers

Mobile imaging trailer standards are used in addition to the applicable general standards and discipline-specific standards (e.g. magnetic resonance imaging (MR), magnetic resonance imaging safety (MRS), computed tomography (CT), and radiation safety (RS)).

Inter-facility mobile imaging refers to imaging services which routinely move from one service location to another service location.

Mobile imaging trailers (MIT) refers to when the imaging system and examination room are transported together from one service location to another service location (i.e. CT mobile imaging trailers, MRI mobile imaging trailers).

Intra-facility portable imaging refers to imaging systems which are designed to routinely move from area to area within a service location (i.e. portable X-ray systems).

Inter-facility mobile imaging trailers – general requirements

No.		Description	Risk	Reference	Change
MIT1.0		**MOBILE IMAGING TRAILERS**			New
MIT1.1		**Mobile imaging trailer policies and procedures support service delivery specific to the trailer environment.**			New
MIT1.1.1	**M**	Mobile imaging trailer policies and procedures includes emergency response protocols specific to the trailer environment.	H	MIT-AC-24	New
MIT1.1.2	**M**	Mobile imaging trailer policies and procedures includes the management of adverse contrast reactions and intravenous extravasations specific to the trailer environment. *Guidance: This standard requirement is applicable if contrast examinations are performed. Refer to GM4 for additional requirements.*	H	MIT-AC-24	New
MIT1.1.3	**M**	Mobile imaging trailer policies and procedures includes fire safety specific to the trailer environment.	H	MIT-AC-24	New
MIT1.1.4	**M**	Mobile imaging trailer policies and procedures includes disaster response specific to the trailer environment.	H	MIT-AC-24	New
MIT1.1.5	**M**	Mobile imaging trailer policies and procedures includes trailer set-up. *Guidance: Trailer set-up outlines any public exclusion areas for safety considerations (e.g. radiation safety risks, magnet safety risks), refer to MIT2.3.1 and MIT3.3.2.*	M	MIT-AC-24	New
MIT1.1.6	**M**	Mobile imaging trailer policies and procedures includes trailer takedown.	M	MIT-AC-24	New
MIT1.1.7	**M**	Mobile imaging trailer policies and procedures includes imaging system quality assurance procedures specific to the trailer environment.	M	MIT-AC-24	New
MIT1.1.8	**M**	Mobile imaging trailer policies and procedures include trailer mechanical maintenance. *Guidance: The policy or procedure outlines responsibility for trailer mechanical maintenance, and any routine maintenance checklists performed by imaging staff (e.g. tire pressure, generator fuel levels).*	M	MIT-AC-24	New
MIT1.2		**Orientation and training are provided to all mobile imaging trailer staff.**			New
MIT1.2.1	**M**	Mobile imaging trailer staff orientation and training includes emergency response protocols specific to the trailer environment.	H	MIT-AC-24	New
MIT1.2.2	**M**	Mobile imaging trailer staff orientation and training includes the management of adverse contrast reactions and intravenous extravasations specific to the trailer environment.	H	MIT-AC-24	New

No.		Description	Risk	Reference	Change
MIT1.2.3	**M**	Mobile imaging trailer staff orientation and training includes fire safety specific to the trailer environment.	H	MIT-AC-24	New
MIT1.2.4	**M**	Mobile imaging trailer staff orientation and training includes disaster response specific to the trailer environment.	H	MIT-AC-24	New
MIT1.2.5	**M**	Mobile imaging trailer staff orientation and training includes trailer set-up.	M	MIT-AC-24	New
MIT1.2.6	**M**	Mobile imaging trailer staff orientation and training includes trailer takedown.	M	MIT-AC-24	New
MIT1.2.7	**M**	Mobile imaging trailer staff orientation and training includes imaging system quality assurance procedures.	M	MIT-AC-24	New
MIT1.2.8	**M**	Mobile imaging trailer staff orientation and training includes trailer mechanical maintenance, as applicable.	M	MIT-AC-24	New
MIT1.3		**Orientation and training are provided to service location staff.**			New
MIT1.3.1	**M**	Other service location staff who may interact with the mobile imaging trailer in response to emergencies, contrast reactions and or disasters are provided education regarding mobile imaging trailer safety protocols. *Guidance: The code blue response teams know how to respond to codes in the trailer environment (i.e. magnet safety).*	M	MIT-AC-24	New
MIT1.4		**The design and location of mobile imaging trailers allow service delivery to be safe, efficient and accessible for patients and staff.**			New
MIT1.4.1	**M**	Mobile imaging trailer sites are prepared in accordance with vendor site planning requirements.	H	MIT-AC-24	New
MIT1.4.2	**M**	New mobile imaging trailer service locations are reviewed and approved by applicable staff (e.g. physicist, radiation safety officer, fire marshall, engineer, maintenance personnel, etc.).	H	MIT-AC-24	New
MIT1.4.3	**M**	The mobile imaging trailer has readily accessible designated hand hygiene sinks and other forms of hand hygiene products. *Guidance: Hand hygiene sinks can be designated outside the MIT (e.g. hospital sink), except if interventional procedures are being performed, then hand hygiene sinks must be available in the trailer.*	H	MIT-AC-24	New
MIT1.4.4	**M**	The mobile imaging trailer has a readily accessible eyewash station.	H	MIT-AC-24	New
MIT1.4.5	**M**	The mobile imaging trailer has accessibility devices appropriate to the patient population served.	M	MIT-AC-24	New

No.		Description	Risk	Reference	Change
MIT1.4.6	**M**	The mobile imaging trailer is restricted from public access. *Guidance: This may include but not limited to, locks, stanchions, restricted access parking locations, monitoring, barriers, signage, etc.*	H	MIT-AC-24	New
MIT1.4.7	**M**	Mobile imaging trailer staff and patients have access to a readily accessible washroom (e.g. washroom in hospital, mobile washroom).	H	MIT-AC-24	New
MIT1.4.8	**M**	Mobile imaging trailer staff have access to a secure location to store personal belongings.	M	MIT-AC-24	New

Computed tomography – mobile imaging trailers

No.		Description	Risk	Reference	Change
MIT2.0		**CT MOBILE IMAGING TRAILERS**			New
MIT2.1		**Repositioning quality control procedures are established and used to monitor the performance of CT mobile imaging trailer systems after each time the trailer is transported to a service location and prior to clinical use.** *Guidance: Repositioning quality control testing is conducted after each time the trailer is transported to a service location and before clinical use.*			New
MIT2.1.1	**M**	Each time the CT MIT is transported to a service location, all required trailer set up is complete as per facility protocol. *Guidance: By trailer, the DAP is referring to all non imaging system components of the mobile imaging CT trailers (e.g. tire pressure, generator, data ports, power supply, etc.).*	M	MIT-AC-24	New
MIT2.1.2	**M**	Repositioning quality control testing of MIT CT imaging systems includes all daily quality control testing as per CT13.1. *Guidance: Repositioning quality control testing is conducted after each time the trailer is transported to a service location and before clinical use.*	M	MIT-AC-24	New
MIT2.1.3	**M**	Repositioning quality control testing of MIT CT imaging systems includes all weekly quality control testing as per CT13.2. *Guidance: Repositioning quality control testing is conducted after each time the trailer is transported to a service location and before clinical use.*	M	MIT-AC-24	New

No.		Description	Risk	Reference	Change
MIT2.2		**Semi-annual quality control procedures are established and used to monitor the performance of CT mobile imaging trailer systems.**			New
MIT2.2.1	**M**	Semi-annual quality control testing of MIT CT imaging systems includes all tests as per CT13.5. *Guidance: In an effort to address the relatively increased risk of equipment issues related to the movement of the CT imaging system, semi-annual quality control testing is conducted. Semi-annual quality control includes all tests as per CT13.5. Semi-annual quality control testing can be conducted by a CT physicist or a qualified delegate (e.g. biomedical personnel, technologists with additional quality assurance training). If a qualified delegate conducts semi-annual testing, test results are shared with a CT physicist. As per CT13.5, annual quality control testing must be performed by a CT physicist and test results are documented.* *Guidance: If a CT MIT system is scheduled to be at a service location for 12 months or longer, semi-annual testing is not required.*	M	MIT-AC-24	New
MIT2.3		**The design and location of the CT mobile imaging trailer allows service delivery to be safe, efficient and accessible for patients and staff.**			New
MIT2.3.1	**M**	If there is an area outside the CT MIT where doses exceed 1mSV per year, then a public exclusion zone around the outside of the MIT is established, to avoid inadvertent access to this area. *Guidance: At acceptance testing, a radiation protection survey is conducted, and radiation measurements are taken outside the trailer to determine if there is an area around the outside of the trailer where doses exceed 1mSV per year. If there is an area around the outside of the trailer where doses exceed 1mSV per year, then a public exclusion zone is established with barriers and signage to ensure this area is not inadvertently accessed.* *Guidance: Radiation measurements are not required each time the CT MIT is transported to a service location, as the area identified at acceptance testing can be recreated at each service location.* *Guidance: See radiation safety (RS) for additional requirements.* *Guidance: If the trailer service location is near a radiosensitive population such as pediatric patients, then the public exclusion zone is established for areas where doses exceed 0.3 mSv per year.*	H	MIT-AC-24	New

MRI - mobile imaging trailers

No.		Description	Risk	Reference	Change
MIT3.0		**MRI MOBILE IMAGING TRAILERS**			New
MIT3.1		**Repositioning quality control procedures are established and used to monitor the performance of MRI mobile imaging trailers systems, after each time the MIT is transported to a service location.** *Guidance: Repositioning quality control testing is conducted after each time the trailer is transported to a service location and before clinical use.*			New
MIT3.1.1	**M**	Each time the MRI MIT is transported to a service location, all required trailer set-up is complete as per facility protocol. *Guidance: By trailer, the DAP is referring to all non-imaging system components of the mobile imaging MRI trailers (e.g. tire pressure, generator, data ports, power supply, etc.).*	M	MIT-AC-24	New
MIT3.1.2	**M**	Repositioning quality control testing of MIT MRI imaging systems includes all daily quality control testing as per MR13.1. *Guidance: Repositioning quality control testing is conducted after each time the trailer is transported to a service location and before clinical use.*	M	MIT-AC-24	New
MIT3.1.3	**M**	Repositioning quality control testing of MIT MRI imaging systems includes all weekly quality control testing as per MR13.2. *Guidance: Repositioning quality control testing is conducted after each time the trailer is transported to a service location and before clinical use.*	M	MIT-AC-24	New
MIT3.1.4	**M**	Repositioning quality control testing of MIT MRI imaging systems includes all monthly quality control testing as per MR13.3. *Guidance: Repositioning quality control testing is conducted after each time the trailer is transported to a service location and before clinical use.* *Guidance: Not all coils must be evaluated; coils are tested at each service location as part of repositioning quality control testing if there is a high probability of use. If a coil is not included at repositioning quality control testing, it must be evaluated prior to use. Following repositioning quality control testing, coils are routinely tested as per weekly (MR13.2) and monthly (MR13.3) quality control testing procedures.*	M	MIT-AC-24	New
MIT3.2		**Semi-annual quality control procedures are established and used to monitor the performance of MRI mobile imaging trailers systems.**			New

No.		Description	Risk	Reference	Change
MIT3.2.1	**M**	Semi-annual quality control testing of MIT MRI imaging systems includes all tests as per MR13.4. *Guidance: In an effort to address the relatively increased risk of equipment issues related to the movement of the MRI imaging system, semi-annual quality control testing is conducted. Semi-annual quality control includes all tests as per MR13.4. Semi-annual quality control testing can be conducted by an MRI physicist or MRI scientist or a qualified delegate (e.g. biomedical personnel, technologists with additional quality assurance training). If a qualified delegate conducts semi-annual testing, test results are shared with an MRI physicist or MRI scientist. As per MR13.4, annual quality control testing must be performed by an MRI physicist or MRI scientist and test results are documented.* *Guidance: If an MRI MIT system is scheduled to be at a service location for 12 months or longer, semi-annual testing is not required.*	M	MIT-AC-24	New
MIT3.3		**The design and location of the MRI mobile imaging trailers allows service delivery to be safe, efficient and accessible for patients and staff.**			New
MIT3.3.1	**M**	There is a process to limit sources of MRI interference outside the MRI MIT. *Guidance: Possible sources of interference include, but are not limited to, high voltage power lines, emergency vehicles, helicopter landings, forklifts or automobile traffic.*	M	MIT-AC-24	New
MIT3.3.2	**M**	If there is an area outside the MRI MIT where the 5-gauss line extends (0.5 mT field contour), then a public exclusion zone around the outside of the MIT is established, to avoid inadvertent access to this area. *Guidance: If the 5 guass line extends outside the trailer this could be a risk to patients with certain implanted medical devices (e.g. pacemakers).* *Guidance: At acceptance testing, magnetic field strengths are measured, and the 5-gauss line (0.5 mT field contour) is identified. If at acceptance testing the 5-gauss line extends outside the trailer, then barriers, signage and monitoring (i.e. video or physical) are established to ensure the area with 0.5mT or greater magnetic field strengths are not inadvertently accessed during working and non-working hours.* *Guidance: 5-guass line reverification is not required each time the MRI MIT is transported to a service location. Instead, the approximate area identified at acceptance testing can be recreated at each subsequent service location.* *Guidance: See magnetic resonance imaging safety (MRS) for additional requirements.*	H	MIT-AC-24	New